Express Mail Label No.: EV 311271991 US Filing Date: June 27, 2003 Page 1 of 9

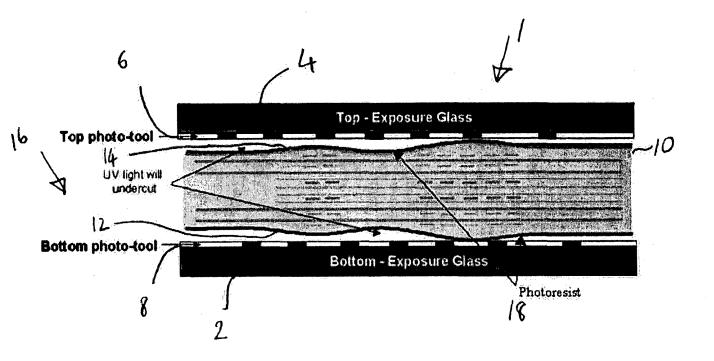


FIG. 1

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Title: A METHOD FOR ANALYZING MATERIAL DENSITY VARIATIONS ON A MULTI-LAYER PRINTED CIRCUIT BOARD

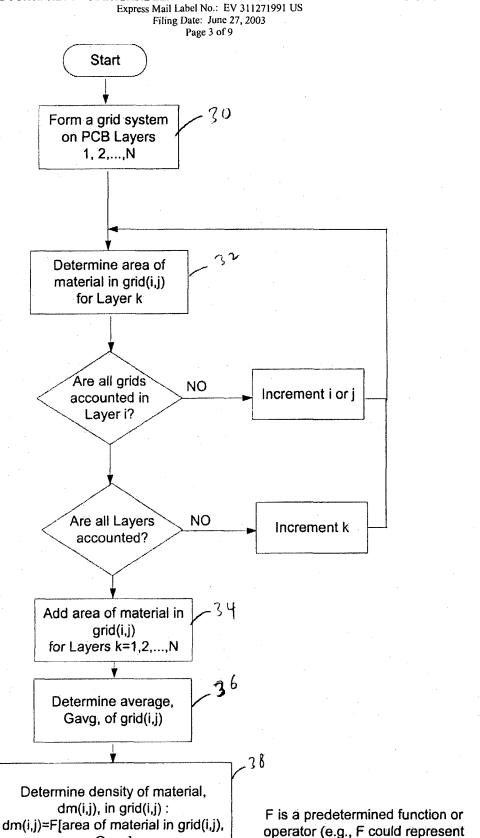
Express Mail Label No.: EV 311271991 US

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FIG. 2

24



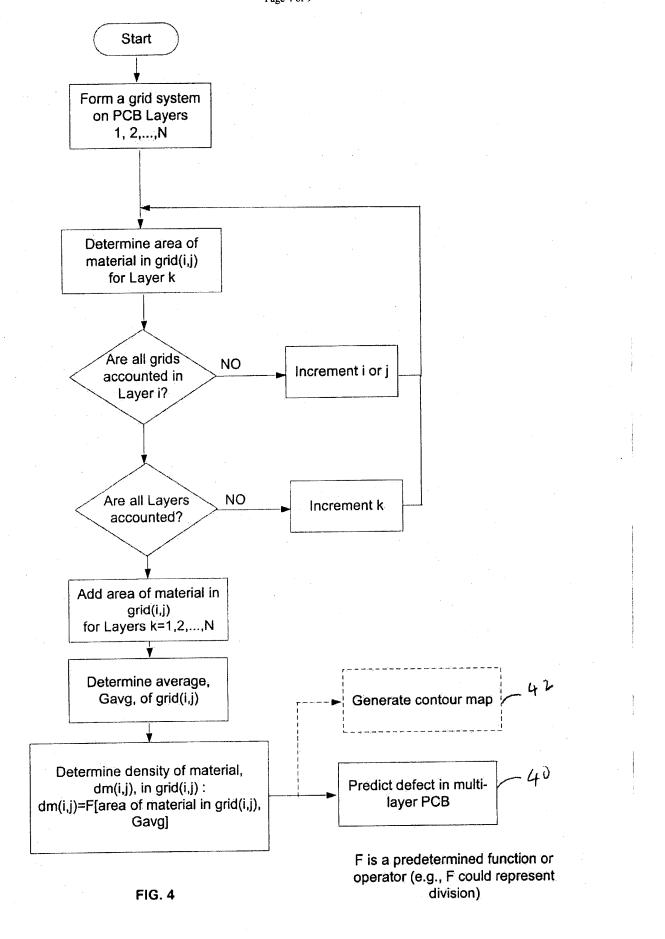
division)

FIG. 3

Gavg]

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Predicted Thickness Variation Map Filipped Over from Graphic of Board

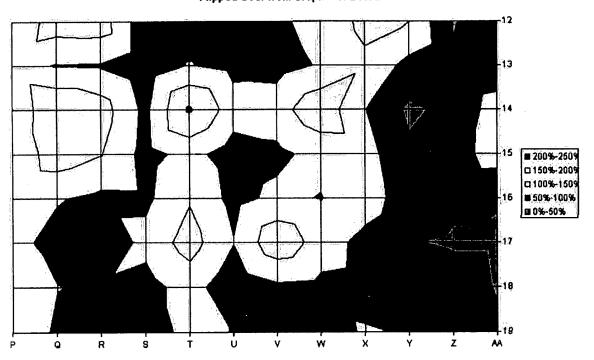


FIG. 5

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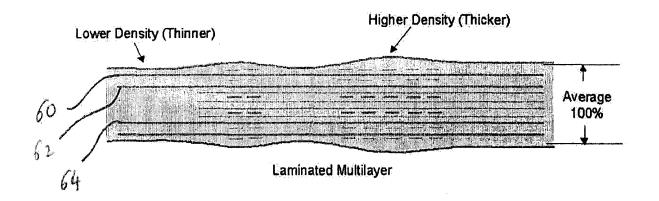


FIG. 6

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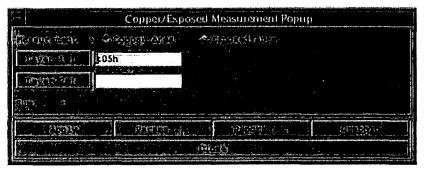


FIG. 7

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	######################################	12. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
Avg Cu in Grid 4,491958333	Column C	17 Jills Stock 1-41 G 502 19 [238] Developed 12 83 143 Jills Stock 12 12 202
	New York New York	0.143
	10 10 10 10 10 10 10 10	
	10 10 10 10 10 10 10 10	0.096
	10 10 10 10 10 10 10 10	0.095
	10 10 10 10 10 10 10 10	
	1997 1997	20.0 20.0 20.0 20.0 20.0 20.0 20.0
*		860.0 860.0 860.0 860.0
0.0923 Delectric Thickin	1999 1999	0.303 0.109 0.204
39.8602	10 10 10 10 10 10 10 10	0.091
ole culgrid	100 100	
Area of Grid Total Avaitat	1995 1995	24.0 25.0
X Box size : 1,221764 inch 1,22176 Y Box size : 1,2554409 inc 1,25544	19 19 19 19 19 19 19 19	0.35
X Box siz Y Box siz	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A 23

FIG. 8

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-	٩	0	R	8	T	U	٧	W	X	Y	Z	AA
19	105%	92%	81%	63%	121%	97%	48%	81%	104%	98%	57%	53%
18	136%	101%	94%	B1%	122%	62%	92%	86%	78%	67%	60%	49%
17	114%	84%	63%	116%	172%	102%	186%	129%	82%	51%	47%	47%
16	100%	104%	884	89%	146%	86%	111%	98%	132%	66%	55%	52%
15	107%	179%	183%	83%	116%	76%	88%	117%	121%	68%	76%	1254
14	103%	199%	176%	87%	207%	125%	128%	187%	102%	42%	61%	1221
13	115%	87%	86%	65 %	103%	84%	79%	104%	140%	88%	63%	63%
12	108%	176%	180%	64%	69%	68%	94%	111%	163%	152%	48%	71%

FIG. 9